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# 5. öGMBT Jahrestagung

## 5<sup>th</sup> Life Science Meeting Innsbruck

25.-27.09. 2013

CCB (Centrum für Chemie und Biomedizin), Innsbruck

&gt;POSTER SESSIONS SCHEDULE&lt;

### Program

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tuesday, 24.09.2013</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 16:00 - 19:00                | Registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Wednesday, 25.09.2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 08:00 - 08:30                | Registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 08:30 - 08:45                | Welcome Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 08:45 - 09:30                | <b>Joint Session with the Austrian Proteome Research Symposium 2013</b><br><u>Chair:</u> Lukas A. Huber<br>Plenary Lecture: <b>Michel Desjardins</b> (Universite de Montreal, Canada)<br><b>"How Proteomics shaped our understanding of the immune system"</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 09:30 - 10:15                | <b>Joint Session with the Austrian Proteome Research Symposium 2013</b><br><u>Chair:</u> Lukas A. Huber<br>Plenary Lecture: <b>Frauke Melchior</b> (ZMBH Heidelberg University, Germany)<br><b>"SUMOylation in oxidative stress response"</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10:15 - 10:45                | Break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 10:45 - 11:45                | <b>Oral Session I: Biotechnology</b><br><u>Chair:</u> Bernhard Auer<br>Session supported by <b>VOGELBUSCH Biocommodities GmbH</b><br>10:45-11:00 <b>Michaela Purtscher</b> : "Extended Infectivity Assay – Amplification and Detection of Retroviral Contaminations in a Lab-on-a-Chip"<br>11:00-11:15 <b>Armin Erlacher</b> : "Biological disturbances cause significant changes in the lettuce microbiome"<br>11:15-11:30 <b>Magdalena Schimke</b> : "Biofunctionalization of nano-scaled diamond particles for use in bone healing and tissue engineering"<br>11:30-11:45 <b>Verena Charwat</b> : "Advancing Cell-Based Assays by Integration of Label-Free Biosensors in Microfluidic Devices" |
| 11:45 - 12:45                | <b>Oral Session II: Varia</b><br><u>Chair:</u> Alexander Hüttenhofer<br>11:45-12:00 <b>Tatsiana Aneichyk</b> : "Translational profiling in childhood acute lymphoblastic leukemia: no evidence for glucocorticoid regulation on mRNA translation."<br>12:00-12:15 <b>Markus Schosserer</b> : "Ribosome modification by Nsun5 is a conserved longevity factor"<br>12:15-12:30 <b>Manuel Alonso Y Adell</b> : "Ordered ESCRT-III disassembly by Vps4 is required for MVB vesicle biogenesis"<br>12:30-12:45 <b>B. Ploier</b> : "Screening for hydrolytic enzymes revealed novel triacylglycerol lipase candidate in <i>Saccharomyces cerevisiae</i> "                                                |

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| 12:45 - 15:00               | <b>Lunch and Poster Session I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 15:00 - 16:45               | <b>Award Ceremony I</b><br><b>ÖGMBT/Biomin PhD Award 2013 + ÖGMBT Lecture</b><br><b>ÖGMBT/Polymun PhD Award 2013 + ÖGMBT Lecture</b><br><b>ÖGMBT/VWR Research Award 2013 + ÖGMBT Lecture</b><br><b>ÖGMBT/THP Research Award 2013 + ÖGMBT Lecture</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 16:45 - 17:00               | <i>Break</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 17:00 – 17:45               | Plenary Lecture: <b>Britta Qualmann</b> (Friedrich-Schiller-University Jena, Germany)<br><b>“Shaping membranes - Role ins neuronal organization and function”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 17:45 – 18:30               | Plenary Lecture: <b>Elena Rugarli</b> (University of Cologne, Germany)<br><b>“The role of m-AAA proteases in neurodegeneration”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 18:30 – 19:30               | ÖGMBT General Assembly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 19:30 – open end            | <b>"Wine &amp; Science" Network Event with buffet + music</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Thursday, 26.09.2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 08:30 – 09:15               | Plenary Lecture: <b>Susan S. Taylor</b> (University of California San Diego, USA)<br><b>“PKA: Dynamic Assembly of Macromolecular Signaling Complexes”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 09:15 – 10:00               | Plenary Lecture: <b>Karolin Luger</b> (Colorado State University, USA)<br><b>“Histone chaperones in nucleosome assembly and transcription regulation”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10:00 - 10:30               | <i>Break</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10:30 - 12:45               | <b>Oral Parallel Session IIIa: Neurobiology, Pharmacology</b><br><u>Chair:</u> Christine Bandtlow<br><br>10:30–10:45 <b>Bastian E. Bäumer</b> : “Nogo Receptor Homolog NgR2 Expressed in Nociceptive Afferent Neurons Controls Epidermal Innervation by Interaction with Versican”<br>10:45-11:00 <b>Nigel Whittle</b> : “Rescue of impaired fear extinction induces specific increases in histone acetylation and gene transcription in extinction-related brain regions”<br>11:00–11:15 <b>C. Schmuckmair</b> : “Neurobiological Mechanisms of Nucleus Accumbens Deep Brain Stimulation in a SSRI-Insensitive Mouse Model of High Anxiety- and Depression-Like Behaviour”<br>11:15–11:30 <b>Lukas Schafferer</b> : “The CCAAT-Binding-Complex mediates Iron Regulation in Aspergillus fumigatus”<br>11:30–11:45 <b>G. F. Vogel</b> : “Characterization of intracellular trafficking pathways in Microvillus Inclusion Disease”<br>11:45–12:00 <b>Günter Steiner</b> : “RNAi mediated silencing of hnRNP-A2 inhibits inflammation and bone erosion in two experimental models of rheumatoid arthritis”<br>12:00–12:15 <b>S. Allipour-Birgani</b> : “Effects of VEGF121-Fibrin on ischemic lesions in UCD-206 chickens, an animal model for systemic sclerosis” | <b>Oral Parallel Session IIIb: Biophysics I</b><br><br>10:30–11:00 Invited Speaker: <b>Peter Hinterdorfer</b><br>11:15–11:30 <b>Marta Campiglio</b> : “Stable incorporation vs. dynamic exchange of beta subunits in a native calcium channel complex”<br>11:30–11:45 <b>Petronel Tuluc</b> : “Interactions of charged residues in the voltage sensor of CaV1.1 L-type calcium channel”<br>11:45–12:00 <b>Birgit Plochberger</b> : “HDL uptake is regulated by mechanical properties of the plasma membrane”<br>12:00–12:15 <b>B. Kollmitzer</b> : “Protein partitioning in liquid-ordered (Lo) / liquid-disordered (Ld) domains”<br><br>12:15–12:45 <b>Schindler Award Lecture: Martin Behrndt</b> : “Forces driving epithelial spreading in zebrafish epiboly” |
| 12:45 – 15:00               | <b>Lunch and Poster Session II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 15:00 - 16:00               | <b>Oral Session IV: Biophysics II</b><br><u>Chair:</u> Jörg Striessnig<br><br>15:00–15:30 Invited Speaker: <b>Sascha Martens</b> (University of Vienna, Austria)<br><b>“Molecular Mechanisms of Autophagosome Formation”</b><br><br>15:30–15:45 <b>Bojan Zagrovic</b> : “Evidence of direct complementary interactions between mRNAs and their cognate proteins at multiple levels”<br>15:45–16:00 <b>Julian E. Fuchs</b> : “Dynamics Direct Specificity of Effector Caspases”                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 16:00 - 16:45               | <b>Oral Session V: Structural Biology</b><br><u>Chair:</u> Klaus Scheffzek<br><br>16:00–16:15 <b>Thomas Zögg</b> : “Crystal structures of the pestiviral protease Npro imply distinct roles for the catalytic water in catalysis”<br>16:15–16:30 <b>Esther Schönauer</b> : “Structural Basis for Activity Regulation and Substrate Preference of Clostridial Collagenases G, H, and T”<br>16:30–16:45 <b>Philipp Aschauer</b> : “Structural Characterization of Substrate Binding in Monoglyceride Lipase”                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 16:45 - 17:00               | <i>Break</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 17:00 – 17:45               | Plenary Lecture: <b>Nikolaus Pfanner</b> (University of Freiburg, Germany)<br><b>“Import and assembly of mitochondrial proteins”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 18:00 - 19:00               | <b>Workshop</b><br>“Automated patch clamp: from organelles to primary cells, from single channels to action potentials. Sophisticated and easy, who says you can’t have it all?”                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

18:00 – 19:30

**Workshop Women in Science**

**Workshop for PhD students:**  
Pursuing a career in academic sciences

19:30

**Tiroler Netzwerkabend: Moderne Wirkstoff-Forschung in Tirol**  
in co-operation with the Life Science Cluster Tirol  
BBQ-buffet + music

19:00 – 20:00

Biophysics Austria General Assembly

**Friday, 27.09.2013**

08:30 – 09:15



**National Lecture**

**FEBS National Lecture: Asifa Akhtar** (Max Planck Institute of Immunobiology and Epigenetics, Germany)  
"Epigenetic regulation by MSL proteins"

09:15 – 10:00

**Oral Session VI: Epigenetics**

Chair: Alexandra Lusser

09:15–09:30 **Thomas Amort**: "Posttranscriptional Nucleotide Modification: a Novel Mechanism to Regulate Long Non-Coding RNA Function"  
09:30–09:45 **Johanna Sebald**: "Chromatin remodeling and immunity control in Drosophila melanogaster"  
09:45–10:00 **Irfete Fetahu**: "Role of DNA methylation and histone modifications on calcium-sensing receptor expression in colorectal cancer"

10:00 – 10:30

Break

10:30 – 11:30

**Oral Session VII: Cancer**

Chair: Hans Grunicke

Session supported by **Österreichische Krebshilfe Tirol**

10:30–10:45 **M. Tschurtschenthaler**: "Altered gut microbiota in mice with Ifnar1-deficient epithelium provokes imbalance of intestinal homeostasis"  
10:45–11:00 **Terlecki-Zaniewicz**: "High levels of oncomiR-21 contribute to the senescence-induced growth arrest in normal human cells and its knock-down increases the replicative lifespan"  
11:00–11:15 **Marion Enthammer**: "Targeting BAG-1 Protein Interactions to Inhibit Tumor Growth"  
11:15–11:30 **Markus Hartl**: "Transcriptional control of DNA replication by the Myc oncoprotein"

11:30 – 12:30

**Oral Session VIII: Signal Transduction**

Chair: Lukas A. Huber

11:30–11:45 **Michael Ebner**: "The role of subcellular localization in Akt regulation"  
11:45–12:00 **Cedric H. De Smet**: "Endosomal biogenesis: a delicate interplay between proteins and lipids"  
12:00–12:15 **Stefan Eduard**: "Dynamic PKA complexes link GPCR signaling to pyrimidine synthesis"  
12:15–12:30 **Theresia Duzendorfer-Matt**: "Molecular link between the RASopathies disorders Neurofibromatosis Type 1 and Legius Syndrome – defining the details"

12:30 – 15:00

**Lunch and Poster Session III**

15:00 – 15:30

**Oral Session IX: Development and Differentiation**

Chair: Dirk Meyer

15:00–15:15 **Verena Ruprecht**: "Super-Bleb Migration in Early Zebrafish Embryos"  
15:15–15:30 **Birgit Lengerer**: "The adhesive system of the flatworm Macrostomum lignano: a morphological and molecular biology analysis"

15:30 – 16:15

Plenary Lecture: **Carl Phillip Heisenberg** (IST, Austria)  
"Cell and tissue mechanics in zebrafish gastrulation"

16:15 – 17:15

**Award Ceremony II**

17:15 – 17:30

Closing Remarks

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